

having growing on them a shell of the salt water mussel (*Mytilus*); both host and mess-mate were alive when taken.

The *G. rotundata* were unusually fine, the shades of color exhibited by them I have never seen excelled. These were otherwise interesting as a number of them were gravid, and we felt all the importance of being true discoverers, as no student had ever before noted them in this condition. As regards this part of their physiology they are a true *Lampsilis*. The possession however of several unique characteristics will probably keep them in a separate genus.

Mention was made above of a new variety of *Q. trapezoides*. This shell differs from the type in having its dorsum very much arched or bent midway. The posterior is widely biangulated. The anterior is singularly truncated like *W. coruscus*, Gld. The effect being that the outline forms nearly an equilateral pentagon, hence the name. Aside from its form, it differs in being much smaller, and frequently entirely devoid of plication on either its sides or posterior slope. A striking peculiarity is that the posterior end of the ligament is perpendicularly over the centre of the base, whereas in the ordinary *trapezoides* the end is situated about three-fourths of the distance from the anterior to the posterior.

LIST OF SHELLS COLLECTED ON SAN MARTIN ISLAND, LOWER CALIFORNIA, MEXICO.

BY FRED. BAKER, M. D.

Loligo sp? Giant squid.	Monoceros lugubre Sby.
Cavolina tridentata Gmel.	Marginella regularis Cpr. 30 fathoms.
Cerostoma nuttalli Cour.	Marginella jewettii Cpr. Drift.
Ocenebra circumtexta Stearns.	Marginella pyriformis Cpr.
Ocenebra gracillima Stearns.	Volvarina varia Sby. Drift.
Ranella californica Hds. 30 fathoms.	Olivella biplicata Sby.
Fusus luteopictus Dall. On breakwater at low tide.	Astyris gouldi Cpr. 30 fathoms.
Macron kellestii A. Ad.	Astyris aurantia Dall.
Macron lividus A. Ad.	Astyris gausapata Gld.
Nassa fossata Gld.	Astyris carinata, var. hindsii Rve.
Nassa perpinguis Hds.	Astyris tuberosa Cpr.
	Anachis penicillata Cpr.

<i>Engina carbonaria</i> Rve. 30 fathoms.	<i>Odostomia</i> (<i>Ivara</i>) <i>turricula</i> Dall & Bartsch.
<i>Amphissa versicolor</i> Dall.	<i>Miralda californica</i> Dall & Bartsch.
<i>Surcula carpenteriana</i> , var. <i>tryoniana</i> Gabb.	<i>Ividia armata</i> Cpr.
<i>Clathurella affinis</i> Dall.	<i>Mumiola amiantis</i> Dall.
<i>Mitromorpha filosa</i> Cpr.	<i>Chrysallida aequisculpta</i> Cpr.
<i>Mangelia interlirata</i> Stearns.	<i>Chrysallida cincta</i> Cpr.
<i>Mangelia variegata</i> Cpr.	<i>Oscilla aequisculpta</i> Cpr.
<i>Conus californicus</i> Hds.	<i>Littorina planaxis</i> Nutt.
<i>Cypræa spadicea</i> Gray.	<i>Littorina pulchra</i> .
<i>Polinices uber</i> Val.	<i>Littorina scutulata</i> Gld.
<i>Crepidula aculeata</i> Gmel.	<i>Lacuna unifasciata</i> Cpr.
<i>Crepidula aculeata</i> , var. <i>californica</i> Nutt.	<i>Diala marmoræa</i> Cpr.
<i>Crepidula dorsata</i> , var. <i>ligulata</i> Gld.	<i>Bittium armillatum</i> Cpr.
<i>Crepidula rugosa</i> Nutt.	<i>Bittium attenuatum</i> Cpr.
<i>Capulus</i> sp?	<i>Bittium esuriens</i> Cpr.
<i>Hipponyx antiquatus</i> Linn.	<i>Bittium quadriflatum</i> Cpr.
<i>Hipponyx tumens</i> Cpr. In drift.	<i>Cerithiopsis columna</i> Cpr.
<i>Scala hindsii</i> Cpr.	<i>Cerithiopsis metaxæ</i> D. C.
<i>Scala tineta</i> Cpr.	<i>Cerithiopsis munita</i> Cpr.?
<i>Turritella goniostoma</i> Val.?	<i>Cerithiopsis tuberculata</i> Mont.
<i>Mesalia tenuisculpta</i> Cpr.	<i>Triforis adversa</i> Mont.
<i>Vermetus fewkesii</i> Yates.	<i>Cerithidea californica</i> Hds.
<i>Cæcum californicum</i> Dall.	<i>Rissoina aequisculpta</i> Cpr.
<i>Cæcum crebricinctum</i> Cpr.	<i>Rissoina bakeri</i> Dall & Bartsch.
<i>Cæcum læve</i> C. B. Ad.	<i>Rissoina infrequens</i> C. B. Ad.
<i>Cæcum oreuttii</i> Dall.	<i>Rissoina interfossa</i> Cpr.
<i>Eulima compacta</i> Cpr.	<i>Barleeia acuta</i> Cpr., banded var. 30 fathoms.
<i>Turbonilla similis</i> C. B. Ad.	<i>Barleeia haliotiphila</i> Cpr.
<i>Turbonilla tenuicula</i> Gld.	<i>Barleeia subtenuis</i> Cpr.
<i>Turbonilla torquata</i> Gld.	<i>Rissoa acutilirata</i> Cpr.
<i>Dunkeria gracilentata</i> Cpr.	<i>Rissoa aequisculpta</i> Cpr.
<i>Dunkeria laminata</i> Cpr.	<i>Alvania aequisculpta</i> Cpr.
<i>Odostomia nuciformis</i> , var. <i>avellama</i> Cpr.	<i>Alvania carpenteri</i> Weink.
<i>Odostomia americana</i> Dall & Bartsch.	<i>Alvania notabilis</i> Cpr.
	<i>Alvania purpurea</i> Dall.
	<i>Amphithalamus inclusus</i> Cpr.
	<i>Truncatella californica</i> Pfr.

Truncatella stimpsoni Stearns. ¹	Ischnochiton magdalenensis Rve.
Liotia acuticostata Cpr.	Rather common, but no large ones found.
Liotia fenestrata Cpr.	
Ethalia supravallata Cpr.	Ischnochiton mertensii Midd.
Phasianella compta Gld.	Ischnochiton sarcosus Dall.
Phasianella compta, var. pulloides. 30 fathoms.	Callistochiton crassicosatus Pils.
Enlithidium substriatum Cpr.	Callistochiton infortunatus Pils.
Pomaulax undosus Wood.	Mopalia muscosa Gld.
Chlorostoma funebreale A. Ad.	Lepidopleurus (Oldroydia) percrassus Dall. "Not in Pilsbry's Monograph."
Chlorostoma gallina Fbs.	Chaetopleura hartwegii, var. nuttalli Cpr.
Gibbula succineta Cpr.	
Leptothyra bacula Cpr.	Tornatina inculta Gld.
Leptothyra carpenteri Pils.	Tornatina harpa Dall.
Leptothyra paucicostata Dall.	Tornatina recta d'Orb.
Calliostoma splendens Cpr.	Gadinia reticulata Sby.
Trochiscus norrissii Sby.	Helix stearnsiana Gabb.
Margarita acuticostata Cpr. 30 fathoms,	Saxicava arctica Linn.
Scissurella rimuloides Cpr.	Semele decisa Cour.
Haliotis cracherodii Leach.	Cumingia californica Conr.
Haliotis fulgens Phil.	Tellina bodegensis Hds.
Fissurella volcans Rve.	Macoma secta Cour.
Clypeidella calliomarginata Cpr.	Petricola carditoides Cour.
Megatebennus bimaculatus Dall.	Venus fordii Yates.? V. toreuma Gld.
Acmæa persona Esch.	
Acmæa scabra Nutt.	Psephis salmonea Cpr.
Acmæa rosacea. 4 fathoms.	Psephis tantilla Gld.
Acmæa spectrum Nutt.	Tivela crassatelloides Cour.
Nacella incessa Hds.	Saxidomax nuttalli Cour.
Nacella paleacea Gld.	Tapes staminea Cour.
Williamia peltoides Cpr.	Chama exogyra Cour.
Lottia gigantea Gray.	Chama pellucida Sby.
Ischnochiton conspicuus Cpr.	Chama spinosa Sby.

¹ In "NAUTILUS," Nov., 1901, Dr. Pilsbry describes *T. stimpsoni guadalupensis*, found by Mr. R. E. Snodgrass in Nov., 1899, as the first specimens of this genus found on any of the islands off Lower California. The above two species were collected in August, 1899.

Lucina californica Cour.	Modiola (Gregariella) opifex Say.
Lucina nuttalli Cour.	Septifer bifurcatus Rve.
Lucina tenuisculpta Cpr.	Philobrya setosa Cpr. 30 fathoms.
Diplodonta orbella Gld.	Lima orientalis Ad. & Rve. Young, dead. 30 fathoms.
Lasea rubra Mont. 30 fathoms.	Pecten latiauritus Conr. Young. 30 fathoms.
Lasea rubra Mont., var. subviridis Cpr. 30 fathoms.	Hinnites giganteus Gray. 30 fathoms.
Kellia laperousii Desh.	Monia foliata Brod. In Hinnites, 30 fathoms.
Kellia suborbicularis Mont. 30 fathoms.	
Milneria minima Dall.	
Lazaria subquadrata Cpr.	
Arca gradata Brod.	
Mytilus californica Cour.	

NEW SPECIES OF PACIFIC COAST SHELLS.

BY WILLIAM HEALEY DALL.

Trivia atomaria n. sp. Shell minute, of a livid pink, with a substratum of olivaceous cast, the whole giving a pinkish brown effect; form subglobular, with a feeble dorsal sulcus, across which the ribs usually pass without interruption; in all there are about 18 ribs, with about equal interspaces, which are slightly sagriate or minutely irregularly rugose, though the ribs are smooth; these ribs form an equal number of fine denticulations on the inside of the outer lip and over the pillar-lip and internal lobe; the extremities are very slightly or not at all produced; the spire is completely obscured. Length 3.2, breadth 2.6, height 2.2 mm.

Half a dozen specimens of uniform size were dredged in 18 fathoms, Panama Bay, by the U. S. Str. Albatross. This is the smallest species I have seen; even the dwarfs of the allied *T. subrostrata* Gray of the West Indian fauna are larger.

Trivia panamensis n. sp. Shell small, strongly sculptured, subovate, inflated, with its posterior extremity slightly produced; sculptured with about 15 rather sharp-edged strong ribs, of which about 4 are intercalary and the others continuous over the shell; in the middle line of the back they dip slightly but are not interrupted or attenuated; aperture narrow, strongly and nearly equally toothed on